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OSA-0708-68

20 February 1968

MEMORANDUM FOR: BPD/COMPT/OSA

SUBJECT : FY-70-74 Needs for Telecommunications

REFERENCE : OSA-9424-68, 15 Feb 1968

1. It is not envisaged at this time that there will be a substantial increase in telecommunications volume (secure teletype and telephone, unsecure telephone, data transmission links, etc.) between D/R&D/OSA and its correspondents, beyond those forecast in the Five Year Program Call FY-1970-74. However, in the event a new aerodynamic imagery collection vehicle development program is authorized during the period there will be a requirement for additional telecommunications service. The additional service would be primarily in the form of secure teletype with contractors and sites, to what extent and volume this office is unable to forecast at this time.

2. If the studies proposed on conceptual design of a rapid, high-quality photographic transmission system prove feasible and desirable, facilities for such transmission could become a requirement during the FY-70-74 time frame. Such a transmission system would be ground to ground, via satellite or cable, from remote sites overseas to the ZI. Such a transmission system however, would not be in support of or under the aegis of D/R&D/OSA, but rather, the result of D/R&D efforts to improve imagery collection and transmission techniques. The magnitude of such a communications system would have to be determined by the exploitation and consumer elements of the national intelligence community. Its inclusion in this forecast of future telecommunications needs is to point up the possibility of such an information transmission system becoming a requirement in or prior to 1975.


Deputy for
Research and Development
Special Activities

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OSA-0708-68

Page 2

25X1A

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OSA-0424-68

15 February 1968

MEMORANDUM FOR: (See Distribution)

SUBJECT: Future Needs For Telecommunications

1. Attached are memoranda from the Comptroller, DD/S&T dated 12 February 1968 and from the Executive Director-Comptroller with attachment dated 24 January 1968.

2. Paragraph four of the DD/S&T memo requests OSA's forecasts through FY 74 by close of business 21 February 1968.

3. Please furnish your response to Comptroller, OSA by close of business 19 February 1968 in order that a coordinated OSA response can be submitted by the due date above.

4. You will note that these requirements are above and beyond those identified in the Five Year Program Call FY 70-74. [redacted]-8749-68.

5. Contact officer for discussion of this subject is [redacted] extension [redacted]

[redacted]
Budget & Programs Division
Comptroller, OSA

Attachments: -2

Distribution:

- 1 - D/Ops/OSA
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DDS&T-609-68

MEMORANDUM FOR: Director of ELINT
Director of Computer Services
Director of Special Projects
Director of Special Activities
Director of Scientific Intelligence
Director of Research and Development
Director of Foreign Missile and
Space Analysis Center

SUBJECT: Future Needs for Telecommunications

1. The attached memorandum from the Executive Director-Comptroller directs us to provide at least our best estimates of future telecommunication requirements through FY 1974. The Communications category in the upcoming 5 year Program identifies such needs but almost solely for collection programs. Other needs are not so clear and may be lacking.

2. Plans and Programs Branch, Comptroller Staff, will use existing data and already planned revisions in the Communications category as a base for response to OPPB. We now need your best estimate of other possible future needs, with or without position and dollar requirements, depending on how clearly you can define them. It is most important to see what the requirements are on the Agency as a whole.

3. Paragraph 3 of the attachment to Colonel White's memorandum provides some broad criteria. The following list may help to identify needs and to discuss the ones you forecast.

a. A change in the type and/or volume of traffic-data, message, facsimile, voice (secure or clear).

b. In what fiscal year do you forecast a need?

c. How long will the new or changed service last?

d. Is the service sole use, on request only, shared with another component?

DDS&T-609-68

Page 2

SUBJECT: Future Needs for Telecommunications

- e. Any interrelationship with other programs?
 - f. Additional operating locations.
 - g. Deletion or merging of operating locations.
 - h. Change in volume and/or type of traffic to or from outside agencies. This includes changes caused by other agencies.
 - i. Change in notification, distribution, advisory procedures.
 - j. Access to time-sharing computers.
 - k. New or revised management control system, operational control system.
 - l. New or revised communication with contractors.
 - m. Change in methodology or technology of communications.
 - n. Any interface with computers or other automated system.
 - o. Change in processing or analysis systems.
 - p. New deployment capability.
4. Please list your forecast requirements by fiscal year through FY 1974 and submit them, in draft form if you prefer, to Plans and Programs Branch by COB 21 February 1968. List your estimate of needs even if another component will, should or might supply the service.

[Redacted Signature Box]

Comptroller
Directorate of
Science and Technology

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Attachment
a/s

24 JAN 1968

MEMORANDUM FOR: Deputy Director for Intelligence
Deputy Director for Plans
Deputy Director for Science and Technology
Deputy Director for Support

SUBJECT : Determination of Future Needs for
Telecommunications

1. I recently established a Communications Study Group to assess communications developments and Agency communications requirements. I expect their findings to provide a basis for long-range planning in the fields of communications and information processing and for the preparation of annual budgets. The usefulness of this effort is dependent on a full and accurate appreciation of new programs, changes in programs and procedural innovations which have either been approved or are likely to be proposed, and which you believe will impact on the Agency's telecommunications systems.

2. It is requested that each Directorate submit descriptions of present and foreseeable plans, programs and activities which may affect these future communications needs. I would appreciate having the information forwarded to me by March 1, 1968, with the reporting arranged by office, division, or staff. Any questions regarding this matter can be referred to [redacted] Chairman, Communications Study Group.

3. The attachment herewith provides additional guidance and describes in more detail the types of information needed.

[redacted]

L. K. White
Executive Director-Comptroller

Attachment

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Details Concerning the Information Required

1. This information is being requested because it is not available today, and the Agency long range programming system does not always reveal the amount of support required, especially for new programs where technological developments are taking place. The period to be covered here is FY 1969 - 1974. The FY 1970 - 1974 Planning Assumptions issued by the Office of Planning, Programming, and Budgeting should be used for guidance where needed.

2. In past years our primary means of telecommunications has been the teletypewriter which is relatively inexpensive, flexible, and redeployable. There are major changes taking place as we enter the era of high-speed telecommunications which includes high-volume message circuits, data links, secure voice, and encrypted facsimile. Utilization of these new techniques involves a high degree of sophistication and automation with its attendant high cost and long lead times. Therefore, it is necessary to make good long range forecasts of needs for these services to assure that they will be available on a timely basis to meet operational requirements, and yet be as economical and as efficient as the state-of-the-art will permit. It is important to have forecasts of requirements so that the costly computerized systems can be sized *to meet* these requirements in unison and avoid the proliferation of *many* limited-use systems.

3. Although the Communications Study Group is primarily interested in telecommunications, the nature of the problem demands cognizance of all related systems which bear on overall communications. The processing and distribution systems, for example, are significant in terms of importance and cost, and are to be included in this survey. Typical factors which will shape the needs for telecommunications services are changes in political and geographical emphasis, changes in technology, and the need for improvements in on-going operations. These factors will result in either increased or decreased needs for telecommunications services and will manifest themselves in terms of:

a. new programs involving, for example, development and implementation of

- an intelligence collection system,
- a community intelligence information system,
- an Agency administrative data system;

b. changes in existing programs such as

- phase out of a major intelligence collection system,
- increased deployment of new equipment at overseas stations for more rapid communications,
- planned increases in operations in certain geographic areas;

c. changes related to organizational components such as

- establishment of a new component,
- physical relocation of a component to new buildings or facilities,
- dissolution of a component.

4. For the needs resulting from a, b, and c above, each office, division, or staff should compile information as to the types of communication services needed, types of information to be handled, average and peak volume traffic loads expected, phasing and timing, and where appropriate, alternative methods of providing service. The descriptions should be in brief narrative form, with quantitative details being included where available. In addition, awareness of any impending changes in activities of non-Agency organizations which could affect Agency communications operations should also be reported.